

Appendix C
Summary of CWNS 2004 Technical
Information

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Table C-1 summarizes the number of treatment facilities and collection systems in operation in 2004 in each State and U.S. Territory and the number of treatment facilities and collection systems projected to be in operation in each State and U.S. Territory if all documented needs are met.

Table C-1. Number of Operational Treatment Facilities and Collection Systems in 2004 and Number of Operational Treatment Facilities and Collection Systems If All Documented Needs Are Met^a

State	Operational in 2004		Operational If All Documented Needs Are Met	
	Treatment Facilities	Collection Systems	Treatment Facilities	Collection Systems
Alabama	275	278	281	286
Alaska	45	46	50	51
Arizona	113	130	234	255
Arkansas	349	387	368	418
California	619	852	666	911
Colorado	315	393	330	436
Connecticut	91	141	96	159
Delaware	19	49	19	53
District of Columbia	1	1	1	1
Florida	322	372	346	399
Georgia	350	404	347	405
Hawaii	21	21	27	27
Idaho	182	227	186	237
Illinois	721	1,016	770	1,076
Indiana	411	488	418	501
Iowa	730	760	744	775
Kansas	634	674	665	720
Kentucky	244	279	308	376
Louisiana	353	380	366	411
Maine	139	177	143	186
Maryland	155	210	176	286
Massachusetts	128	235	135	255
Michigan	396	665	404	674
Minnesota	514	662	518	685
Mississippi	317	374	411	533
Missouri	730	813	755	896
Montana	199	206	210	219
Nebraska	468	476	475	486
Nevada	55	61	60	73

State	Operational in 2004		Operational If All Documented Needs Are Met	
	Treatment Facilities	Collection Systems	Treatment Facilities	Collection Systems
New Hampshire	86	117	87	120
New Jersey	155	562	166	585
New Mexico	63	72	65	75
New York	580	937	641	1,027
North Carolina	455	594	486	686
North Dakota	282	285	282	287
Ohio	780	1,046	852	1,253
Oklahoma	493	499	496	505
Oregon	213	262	213	265
Pennsylvania	849	1,610	970	1,838
Rhode Island	20	33	21	37
South Carolina	173	192	168	204
South Dakota	272	276	283	287
Tennessee	243	288	249	297
Texas	1,379	1,729	1,454	1,857
Utah	101	168	121	192
Vermont	84	100	85	103
Virginia	225	304	250	383
Washington	239	376	242	379
West Virginia	215	303	405	631
Wisconsin	595	869	619	990
Wyoming	121	141	121	141
American Samoa	2	2	2	2
Guam	7	7	6	7
N. Mariana Islands	2	2	4	4
Puerto Rico	41	41	42	42
Virgin Islands	12	12	12	12
Total ^b	16,583	21,604	17,851	23,999

Notes:

^a Alaska, American Samoa, Guam, the Northern Mariana Islands and the Virgin Islands did not participate in the CWNS 2004. Arizona, California, Georgia, Massachusetts, Michigan, Minnesota, North Dakota and South Dakota did not have the resources to complete the updating of their data. All other states, the District of Columbia and Puerto Rico completed more than 97 percent of the data entry or had fewer than 10 facilities that were not updated.

^b Totals include best available information from States and Territories that did not have the resources to complete the updating of the data or did not participate in the CWNS 2004 in order to maintain continuity with previous Reports to Congress. Forty operational treatment plants and 43 projected treatment plants were excluded from this table because the data related to population, flow and effluent levels were not complete.

Table C-2 shows, for five flow ranges, the number of treatment facilities in operation in 2004 and the number projected to be in operation if all documented needs are met. The number of facilities and their cumulative flow (in millions of gallons per day) are shown for each of the flow ranges.

Table C-2. Number of Treatment Facilities by Flow Range

Treatment Facilities in Operation in 2004 ^a			
Existing Flow Range (mgd)	Number of Facilities	Total Existing Flow (mgd)	Present Design Capacity (mgd)
0.000 to 0.100	6,830	298	580
0.101 to 1.000	6,431	2,327	3,923
1.001 to 10.000	2,771	8,766	13,225
10.001 to 100.000	503	13,233	17,769
100.001 and greater	41	9,033	10,939
Other ^b	7	-	2
Total ^c	16,583	33,657	46,438

Treatment Facilities in Operation If All Documented Needs Are Met ^a		
Existing Flow Range (mgd)	Number of Facilities	Total Future Design Flow Capacity (mgd)
0.000 to 0.100	6,107	295
0.101 to 1.000	7,252	2,795
1.001 to 10.000	3,638	12,566
10.001 to 100.000	778	20,293
100.001 and greater	68	15,697
Other ^b	8	-
Total ^c	17,851	51,646

Notes:

^a Alaska, American Samoa, Guam, the Northern Mariana Islands and the Virgin Islands did not participate in the CWNS 2004. Arizona, California, Georgia, Massachusetts, Michigan, Minnesota, North Dakota and South Dakota did not have the resources to complete the updating of their data. All other states, the District of Columbia and Puerto Rico completed more than 97 percent of the data entry or had fewer than 10 facilities that were not updated.

^b Flow data for these facilities were unavailable.

^c Totals include best available information from States and Territories that did not have the resources to complete the updating of the data or did not participate in the CWNS 2004 in order to maintain continuity with previous Reports to Congress. Forty operational and 43 projected treatment plants were excluded from this table because the data related to population, flow and effluent levels were not complete.

Table C-3 shows, by level of treatment, the number of treatment facilities in operation in 2004 and the number projected to be in operation if all documented needs are met. The number of facilities, their cumulative capacities (in millions of gallons per day), and the population served are shown for each level of treatment. The population served number is then presented as a percentage of the total 2004 and 2024 U.S. population, respectively.

Table C-3. Number of Treatment Facilities by Level of Treatment

Treatment Facilities in Operation in 2004 ^a					
Level of Treatment	Number of Facilities	Existing Flow (mgd)	Present Design Capacity (mgd)	Number of People Served	Percent of U.S. Population
Less than Secondary ^b	40	441	570	3,306,921	1.1
Secondary	9,221	14,622	19,894	96,469,710	32.4
Greater than Secondary	4,916	16,522	23,046	108,506,467	36.5
No Discharge ^c	2,188	1,565	2,296	14,557,817	4.9
Partial Treatment ^d	218	507	632	-	-
Total ^e	16,583	33,657	46,438	222,840,915	74.9

Treatment Facilities in Operation If All Documented Needs Are Met ^a				
Level of Treatment	Number of Facilities	Future Design Capacity (mgd)	Number of People Served	Percent of U.S. Population
Less than Secondary ^b	26	313	1,656,716	0.5
Secondary	9,446	20,607	109,360,794	31.2
Greater than Secondary	5,607	26,822	149,943,142	42.7
No Discharge ^c	2,545	3,059	25,269,984	7.2
Partial Treatment ^d	227	845	-	-
Total ^e	17,851	51,646	286,230,636	81.6

^a Alaska, American Samoa, Guam, the Northern Mariana Islands and the Virgin Islands did not participate in the CWNS 2004. Arizona, California, Georgia, Massachusetts, Michigan, Minnesota, North Dakota and South Dakota did not have the resources to complete the updating of their data. All other states, the District of Columbia and Puerto Rico completed more than 97 percent of the data entry or had fewer than 10 facilities that were not updated.

^b Less-than-secondary facilities include facilities granted or pending section 301(h) waivers from secondary treatment for discharges to marine waters.

^c No-discharge facilities do not discharge treated wastewater to the Nation's waterways. These facilities dispose of wastewater via methods such as industrial reuse, irrigation or evaporation.

^d These facilities provide some treatment to wastewater and discharge their effluents to other wastewater facilities for further treatment and discharge. The population associated with these facilities is omitted from this table to avoid double accounting.

^e Totals include best available information from States and Territories that did not have the resources to complete the updating of the data or did not participate in the CWNS 2004 in order to maintain continuity with previous Reports to Congress. Forty operational and 43 projected treatment plants were excluded from this table because the data related to population, flow and effluent levels were not complete.

Table C-4 presents the number of CSO facilities with documented needs identified during the CWNS 2000 and CWNS 2004.

Table C-4. Number of Facilities With CSO Correction Needs and Total CSO Correction Needs: 2000 and 2004 (January 2004 dollars in millions)

State	Number of Facilities with CSO Needs in 2000	Number of Facilities with CSO Needs in 2004	2000 CSO Needs (\$ Millions)	2004 CSO Needs (\$ Millions)
Alabama	0	0	0	0
Alaska	1	NR	5	NR
Arizona	0	0	0	0
Arkansas	0	0	0	0
California	1	3	475	255
Colorado	1	0	11	0
Connecticut	6	5	556	839
Delaware	1	1	113	21
District of Columbia	1	1	1,134	1,307
Florida	0	0	0	0
Georgia	2	2	1,022	1,022
Hawaii	0	0	0	0
Idaho	0	0	0	0
Illinois	105	111	10,521	10,100
Indiana	107	107	6,088	5,361
Iowa	14	7	1,708	427
Kansas	3	3	441	464
Kentucky	12	8	241	181
Louisiana	0	0	0	0
Maine	48	42	727	374
Maryland	8	10	440	430
Massachusetts	25	19	2,588	1,805
Michigan	21	18	2,713	4,334
Minnesota	1	1	6	9
Mississippi	0	0	0	0
Missouri	7	8	1,313	1,459
Montana	0	0	0	0
Nebraska	2	2	958	928
Nevada	0	0	0	0

New Hampshire	4	4	540	261
New Jersey	39	37	4,882	3,772
New Mexico	0	0	0	0
New York	83	75	6,120	6,563
North Carolina	1	1	3	3
North Dakota	0	0	0	0
Ohio	109	105	4,034	6,284
Oklahoma	0	0	0	0
Oregon	2	2	83	834
Pennsylvania	123	97	6,047	4,639
Rhode Island	3	3	705	636
South Carolina	0	0	0	0
South Dakota	1	0	2	0
Tennessee	2	2	272	285
Texas	0	0	0	0
Utah	0	0	0	0
Vermont	4	2	34	27
Virginia	3	3	512	512
Washington	11	27	677	515
West Virginia	45	38	968	767
Wisconsin	3	3	380	406
Wyoming	0	0	0	0
American Samoa	NR	NR	NR	NR
Guam	NR	NR	NR	NR
N. Mariana Islands	NR	NR	NR	NR
Puerto Rico	0	0	0	0
Virgin Islands	NR	NR	NR	NR
Total	799	747	56,319	54,820

NR = not reported. Alaska, American Samoa, Guam, the Northern Mariana Islands and the Virgin Islands did not participate in the CWNS 2004. Arizona, California, Georgia, Massachusetts, Michigan, Minnesota, North Dakota and South Dakota did not have the resources to complete the updating of their data. All other states, the District of Columbia and Puerto Rico completed more than 97 percent of the data entry or had fewer than 10 facilities that were not updated.

Table C-5 presents the number of storm water facilities with needs identified in the CWNS 2004 by the size of the MS4.

Table C-5. Number of Facilities With MS4 Storm Water Management Program Needs and Total MS4 Storm Water Management Program Needs (January 2004 dollars in millions)

State	Small MS4 Facilities (<100,000 people)		Medium MS4 Facilities (100,000 through 249,999 people)		Large MS4 Facilities (>250,000 people)	
	Number of Facilities ^a	Needs (\$ Millions)	Number of Facilities ^a	Needs (\$ Millions)	Number of Facilities ^a	Needs (\$ Millions)
Alabama	0	0	0	0	0	0
Alaska	NR	NR	NR	NR	NR	NR
Arizona	12	95	4	135	6	944
Arkansas	0	0	0	0	0	0
California	14	167	6	66	7	158
Colorado	19	72	12	28	0	0
Connecticut	0	0	0	0	0	0
Delaware	0	0	0	0	0	0
District of Columbia	0	0	0	0	1	9
Florida	88	286	20	546	43	1,351
Georgia	0	0	0	0	0	0
Hawaii	0	0	0	0	0	0
Idaho	1	19	0	0	0	0
Illinois	0	0	0	0	0	0
Indiana	97	10	2	2	0	0
Iowa	1	2	0	0	0	0
Kansas	0	0	0	0	0	0
Kentucky	0	0	0	0	1	27
Louisiana	0	0	0	0	0	0
Maine	2	3	0	0	0	0
Maryland	1	1	6	63	5	367
Massachusetts	0	0	0	0	0	0
Michigan	0	0	0	0	0	0
Minnesota	190	911	0	0	0	0
Mississippi	0	0	0	0	0	0
Missouri	0	0	0	0	0	0

Montana	0	0	0	0	0	0
Nebraska	0	0	1	20	0	0
Nevada	0	0	0	0	2	11
New Hampshire	0	0	0	0	0	0
New Jersey	563	87	8	0b	16	7
New Mexico	0	0	0	0	0	0
New York	9	8	0	0	2	14
North Carolina	0	0	2	1	0	0
North Dakota	0	0	0	0	0	0
Ohio	5	4	0	0	0	0
Oklahoma	0	0	0	0	2	199
Oregon	0	0	0	0	2	61
Pennsylvania	8	12	1	6	0	0
Rhode Island	3	5	0	0	0	0
South Carolina	1	15	0	0	0	0
South Dakota	0	0	1	0b	0	0
Tennessee	0	0	0	0	0	0
Texas	0	0	1	63	31	2,776
Utah	0	0	0	0	0	0
Vermont	0	0	0	0	0	0
Virginia	0	0	0	0	0	0
Washington	6	41	7	113	1	26
West Virginia	2	14	0	0	0	0
Wisconsin	38	208	1	15	2	5
Wyoming	2	1	0	0	0	0
American Samoa	NR	NR	NR	NR	NR	NR
Guam	NR	NR	NR	NR	NR	NR
N. Mariana Islands	NR	NR	NR	NR	NR	NR
Puerto Rico	0	0	0	0	0	0
Virgin Islands	NR	NR	NR	NR	NR	NR
Total	1,062	1,961	72	1,058	121	5,955

Notes:

NR = not reported. Alaska, American Samoa, Guam, the Northern Mariana Islands and the Virgin Islands did not participate in the CWNS 2004. Arizona, California, Georgia, Massachusetts, Michigan, Minnesota, North Dakota and South Dakota did not have the resources to complete the updating of their data. All other states, the District of Columbia and Puerto Rico completed more than 97 percent of the data entry or had fewer than 10 facilities that were not updated.

^a The number of facilities on this table does not reflect the number of MS4s in a particular state. The number of facilities reflects how many records were entered into the CWNS 2004 database, and one facility can cover multiple MS4s or multiple facilities can cover one MS4.

^b Estimate is less than \$0.5 million.

Table C-6 presents the facilities represented in the CWNS 2004 that use the CSO cost curve to document a CSO need greater than \$120 million. Collectively, the CSO needs in these 59 facilities represent \$18.6 billion of the total \$54.8 billion (34 percent) in documented CSO needs that are reported in the CWNS 2004.

Table C-6. Facilities With CSO Cost Curve Needs Exceeding \$120 Million

State	Facility Name	Responsible Entity	County
Illinois	Arlington Hts. Col. Sys.1	Arlington Heights, Vil. Of	Cook
Illinois	Aurora Col. Sys.	Aurora, City Of	Kane
Illinois	Chicago Central Col. Sys.	Chicago, City Of	Cook
Illinois	Chicago Northside Col. Sys.	Chicago, City Of	Cook
Illinois	Chicago South Col. Sys.	Chicago, City Of	Cook
Illinois	Des Plaines Col. Sys.	Des Plaines, City Of	Cook
Illinois	East St. Louis Sewers	City Of East St. Louis	St. Clair
Illinois	Elgin Sewers	City Of Elgin	Kane
Illinois	Joliet - Eastside STP	Joliet, City Of	Will
Illinois	Peru WWTP	Peru, City of	La Salle
Illinois	Rock Island Main STP	Rock Island, City Of	Rock Island
Illinois	Skokie CS	Skokie, Village of	Cook
Illinois	Springfield Sd Spring Cr.	Springfield Sanitary Dist	Sangamon
Indiana	East Chicago STP	East Chicago, City Of	Lake
Indiana	Eastside WWTP	Evansville, City Of	Vanderburgh
Indiana	Evansville Westside WWTP	Evansville, City of	Vanderburgh
Indiana	Fort Wayne WPCP	Fort Wayne Board Of Public	Allen
Indiana	Gary Sanitary District	Gary Sanitary District	Lake
Indiana	Lafayette WWTP	Lafayette, City Of	Tippecanoe
Indiana	Michigan City STP	Michigan City	La Porte
Indiana	Moss Island Road Plant	Anderson, City Of	Madison
Indiana	South Bend WWTP	South Bend Board of Public	St. Joseph
Indiana	Southport WWTP	Indianapolis San. Dist.	Marion
Iowa	Burlington WWTP	Burlington, City of	Des Moines
Iowa	Muscatine WWTP	Muscatine, City Of	Muscatine
Kansas	KCK WWTP #1-KP WWTP	Kansas City, City of	Wyandotte
Kansas	Topeka Oakland WWTP	Topeka, City of	Shawnee
Maryland	Back River WWTP	Baltimore, City Of	Baltimore
Michigan	Lansing WWTP	City Of Lansing	Ingham
Michigan	Saginaw STP	Saginaw DPW	Saginaw

Missouri	St Joseph WWTP	St Joseph, City Of	Buchanan
Nebraska	Missouri River STP	Omaha, City of	Douglas
New Jersey	Bergen County Utilities Authority	Bergen County Utilities Authority	Bergen
New Jersey	Camden County MUA	Camden Co MUA	Camden
New Jersey	Elizabeth City CSO	Elizabeth, City Of, Public Works	Union
New Jersey	Jersey City Mun. Util. Auth.	Jersey City MUA	Hudson
New Jersey	Joint Meeting Of Essex & Union	J M Of Essex & Union	Union
New Jersey	Newark City CSO - PVSC	Passaic Valley S.C.	Essex
New Jersey	Paterson Cs.	Paterson, City Of	Passaic
New York	Albany (C) San & Comb. Sewers	Albany, City Of (Albany MWF Authority)	Albany
New York	New York (C) - Bowery Bay WPCP	NYC DEP	Queens
New York	New York (C) - Coney Island WPCP	NYC DEP	Kings
New York	New York (C) - Hunts Point WPCP	NYC DEP	Bronx
New York	New York (C) - Jamaica WPCP	NYC DEP	Queens
New York	New York (C) - Newton Creek WPCP	NYC DEP	Kings
New York	New York (C) - North River WPCP	NYC DEP	New York
New York	New York (C) - Oakwood Beach WPCP	NYC DEP	Richmond
New York	New York (C) - Owls Head WPCP	NYC DEP	Kings
New York	New York (C) - Port Richmond WPCP	NYC DEP	Richmond
New York	New York (C) - Tallman Island WPCP	NYC DEP	Queens
New York	New York (C) - Wards Island WPCP	NYC DEP	New York
New York	Utica (C) San S. & CSO Outfall	Utica, City Of	Oneida
Ohio	Youngstown WWTP & Sewer System	City Of Youngstown	Mahoning
Pennsylvania	Bethlehem City STP	Bethlehem Authority, City	Northampton
Pennsylvania	Harrisburg Authority STP	Harrisburg Authority	Dauphin
Pennsylvania	Philadelphia Water Dept (NE)	Philadelphia Water Dept - WPC Division	Philadelphia
Pennsylvania	Philadelphia Water Dept (SE)	Philadelphia Water Dept - WPC Division	Philadelphia
Pennsylvania	Philadelphia Water Dept (SW)	Philadelphia Water Dept	Philadelphia
Wisconsin	Milwaukee, City of - CS	Milwaukee, City of	Milwaukee

Table C-7 shows, by treatment level, the number of facilities in operation in 2004 and the population served at the State level. The number of facilities and population served are shown for each level of treatment and for each State and U.S. Territory.

Table C-7. Number of Treatment Facilities and Population Served per State by Level of Treatment for Year 2004

State	Number of Facilities Providing Listed Effluent Level ^a				Population Served by Listed Effluent Level ^a			
	Less than Secondary ^b	Secondary	Greater than Secondary	No Discharge ^c	Less than Secondary ^b	Secondary	Greater than Secondary	No Discharge ^c
Alabama	0	131	129	7	0	751,759	1,996,926	6,651
Alaska	5	30	0	9	207,994	108,879	0	21,920
Arizona	0	16	19	74	0	116,384	3,257,943	1,551,600
Arkansas	0	118	221	9	0	725,025	852,736	12,155
California	3	186	84	334	1,942,488	17,829,141	8,731,071	3,876,394
Colorado	0	221	42	36	0	1,333,330	2,303,870	14,437
Connecticut	0	43	42	6	0	1,062,280	1,010,189	2,645
Delaware	0	2	13	4	0	8,822	666,349	25,444
District of Columbia ^d	0	0	1	0	0	0	1,298,601	0
Florida	0	0	111	209	0	0	6,586,411	6,309,507
Georgia	0	203	96	41	0	1,594,624	2,881,293	114,309
Hawaii	1	5	3	12	344,706	139,609	207,958	89,512
Idaho	0	113	7	59	0	583,756	299,893	56,724
Illinois	0	417	297	2	0	707,927	10,077,113	2,257
Indiana	0	127	274	0	0	389,859	3,654,009	0
Iowa	0	716	10	1	0	2,092,494	194,071	209
Kansas	0	356	79	196	0	670,941	1,255,624	101,710
Kentucky	0	149	91	1	0	1,566,266	912,458	435
Louisiana	0	173	173	1	0	2,248,137	971,231	207
Maine	12	115	2	10	9,303	626,778	16,038	7,215
Maryland	0	75	73	5	0	949,514	2,040,001	3,920
Massachusetts	1	77	35	10	19,762	4,372,683	859,775	25,025
Michigan	0	204	120	68	0	1,277,066	6,227,896	108,121
Minnesota	1	425	80	4	25	1,166,010	2,219,811	3,513
Mississippi	0	208	84	3	0	1,132,063	641,674	1,272
Missouri	0	629	79	19	0	3,694,485	431,110	2,482
Montana	0	108	6	83	0	399,771	92,390	57,617
Nebraska	0	255	23	188	0	947,956	206,946	82,587
Nevada	0	8	3	44	0	245,905	916,572	300,957
New Hampshire	1	67	4	11	20,617	590,051	34,878	6,838
New Jersey	0	91	57	1	0	6,553,273	1,209,075	34,307
New Mexico	1	39	3	19	1,626	894,678	7,150	216,866
New York	0	387	156	31	0	12,140,214	3,133,991	110,284
North Carolina	0	270	142	37	0	914,904	2,697,631	118,428

North Dakota	0	254	1	27	0	559,545	21,531	5,909
Ohio	0	172	604	3	0	1,267,225	7,454,278	1,074
Oklahoma	0	238	54	200	0	1,661,004	818,547	149,803
Oregon	0	133	31	48	0	1,822,176	977,731	105,085
Pennsylvania	0	419	420	7	0	5,871,941	4,156,749	9,371
Rhode Island	0	18	2	0	0	700,818	10,184	0
South Carolina	1	105	51	11	4,000	1,700,794	696,221	50,361
South Dakota	0	234	9	29	0	271,567	168,006	13,002
Tennessee	0	157	78	7	0	2,007,226	1,519,925	10,646
Texas	2	506	667	182	1,070	2,509,633	16,761,753	679,461
Utah	0	47	5	49	0	1,800,130	200,925	161,259
Vermont	0	49	31	4	0	99,181	208,843	1,792
Virginia	0	154	63	1	0	2,360,084	2,506,387	1,067
Washington	0	198	7	31	0	3,683,763	1,054,599	47,319
West Virginia	2	143	64	2	861	623,922	375,042	1,117
Wisconsin	0	292	265	37	0	692,285	3,452,096	42,691
Wyoming	0	89	3	14	0	306,246	84,439	8,037
American Samoa	2	0	0	0	5,511	0	0	0
Guam	2	2	0	2	62,639	9,236	0	4,275
N. Mariana Islands	0	2	0	0	0	0	0	0
Puerto Rico	5	35	1	0	666,788	630,056	146,477	0
Virgin Islands	1	10	1	0	19,531	58,294	50	0
Total^c	40	9,221	4,916	2,188	3,306,921	96,469,710	108,506,467	14,557,817

Notes:

^a Alaska, American Samoa, Guam, the Northern Mariana Islands and the Virgin Islands did not participate in the CWNS 2004. Arizona, California, Georgia, Massachusetts, Michigan, Minnesota, North Dakota and South Dakota did not have the resources to complete the updating of their data. All other states, the District of Columbia and Puerto Rico completed more than 97 percent of the data entry or had fewer than 10 facilities that were not updated.

^b Less-than-secondary facilities include facilities granted or pending section 301(h) waivers from secondary treatment for discharges to marine waters.

^c No-discharge facilities do not discharge treated wastewater to the Nation's waterways. These facilities dispose of wastewater via methods such as industrial reuse, irrigation or evaporation.

^d The reported population served for the District of Columbia includes populations from Maryland and Virginia that receive wastewater treatment at the Blue Plains facility in the District of Columbia.

^e Totals include best available information from States and Territories that did not have the resources to complete the updating of the data or did not participate in the CWNS 2004 in order to maintain continuity with previous Reports to Congress. Forty operational treatment plants were excluded from this table because the data related to population, flow and effluent levels were not complete.

Table C-8 shows, by treatment level, the number of facilities that will be in operation if all documented needs are met and the population served at State level. The number of facilities and population served are shown for each level of treatment and for each State and U.S. Territory.

Table C-8. Number of Treatment Facilities and Population Served per State by Level of Treatment If All Documented Needs Are Met

State	Number of Facilities Providing Listed Effluent Level ^a				Population Served by Listed Effluent Level ^a			
	Less than Secondary ^b	Secondary	Greater than Secondary	No Discharge ^c	Less than Secondary ^b	Secondary	Greater than Secondary	No Discharge ^c
Alabama	0	128	136	9	0	868,468	2,321,466	12,483
Alaska	5	31	0	13	346,571	211,131	0	42,808
Arizona	0	8	31	191	0	334,851	4,122,257	3,961,730
Arkansas	0	120	233	11	0	1,073,936	1,422,597	26,244
California	1	177	108	372	76,400	20,886,580	12,337,759	5,327,451
Colorado	0	218	57	38	0	1,744,660	3,000,234	27,865
Connecticut	0	10	78	8	0	113,845	2,393,873	17,975
Delaware	0	2	12	5	0	11,165	796,144	39,024
District of Columbia ^d	0	0	1	0	0	0	1,446,672	0
Florida	0	0	115	227	0	0	9,608,736	11,400,195
Georgia	0	191	109	41	0	1,807,604	4,591,246	168,255
Hawaii	1	5	3	18	420,000	225,800	390,258	237,979
Idaho	0	109	10	63	0	779,924	450,905	96,523
Illinois	0	441	317	6	0	947,039	12,163,555	3,497
Indiana	0	129	279	0	0	459,540	4,203,758	0
Iowa	0	725	14	1	0	2,547,242	242,392	192
Kansas	0	342	114	205	0	573,540	2,073,467	117,511
Kentucky	0	196	101	4	0	2,381,558	1,572,554	1,927
Louisiana	0	139	224	1	0	2,796,891	1,320,391	220
Maine	10	111	8	12	12,269	745,622	63,850	19,502
Maryland	0	73	87	14	0	308,731	3,364,222	19,838
Massachusetts	1	74	43	13	35,923	3,983,629	1,132,686	51,384
Michigan	0	208	122	70	0	1,361,675	6,717,059	124,612
Minnesota	1	405	101	8	25	1,213,299	2,666,868	5,417
Mississippi	0	297	96	2	0	1,005,136	1,679,237	702
Missouri	0	648	87	18	0	5,261,042	750,536	3,490
Montana	0	109	8	90	0	562,216	168,113	92,171
Nebraska	0	236	44	194	0	870,485	566,677	96,699
Nevada	0	8	3	47	0	451,211	1,129,160	455,472
New Hampshire	1	60	11	14	24,075	628,720	112,417	9,903
New Jersey	0	76	73	10	0	6,356,941	2,370,312	97,956
New Mexico	0	36	7	21	0	1,057,283	113,452	235,359
New York	0	404	187	42	0	12,107,809	3,745,768	307,620

North Carolina	0	245	172	62	0	816,516	4,838,052	325,392
North Dakota	0	252	3	27	0	677,369	33,978	6,834
Ohio	0	173	674	5	0	1,457,966	8,844,799	1,672
Oklahoma	0	222	66	207	0	1,827,399	911,938	173,411
Oregon	0	129	34	50	0	2,203,257	1,356,819	186,310
Pennsylvania	0	496	459	8	0	5,753,995	4,854,311	13,177
Rhode Island	0	15	6	0	0	596,673	196,658	0
South Carolina	0	94	60	11	0	2,381,001	1,479,333	112,284
South Dakota	0	240	11	32	0	321,189	328,011	14,676
Tennessee	0	161	77	8	0	2,514,147	1,909,373	20,025
Texas	0	521	720	186	0	3,479,870	24,393,691	937,880
Utah	0	43	10	67	0	1,860,710	912,394	335,314
Vermont	0	43	37	5	0	119,752	282,414	3,352
Virginia	0	160	73	7	0	2,911,238	4,288,677	9,667
Washington	0	199	8	31	0	4,942,843	1,331,252	51,513
West Virginia	0	308	94	0	0	1,056,031	501,509	0
Wisconsin	0	287	276	55	0	720,245	4,047,263	60,001
Wyoming	0	87	5	14	0	431,386	106,408	11,927
American Samoa	2	0	0	0	39,200	0	0	0
Guam	0	4	0	2	0	112,910	0	4,545
N. Mariana Islands	0	4	0	0	0	0	0	0
Puerto Rico	4	37	1	0	702,253	1,443,854	247,855	0
Virgin Islands	0	10	2	0	0	54,870	39,786	0
Total^c	26	9,446	5,607	2,545	1,656,716	109,360,794	149,943,142	25,269,984

Notes:

^a Alaska, American Samoa, Guam, the Northern Mariana Islands and the Virgin Islands did not participate in the CWNS 2004. Arizona, California, Georgia, Massachusetts, Michigan, Minnesota, North Dakota and South Dakota did not have the resources to complete the updating of their data. All other states, the District of Columbia and Puerto Rico completed more than 97 percent of the data entry or had fewer than 10 facilities that were not updated.

^b Less-than-secondary facilities include facilities granted or pending section 301(h) waivers from secondary treatment for discharges to marine waters.

^c No-discharge facilities do not discharge treated wastewater to the Nation's waterways. These facilities dispose of wastewater via methods such as industrial reuse, irrigation or evaporation.

^d The reported population served for the District of Columbia includes populations from Maryland and Virginia that receive wastewater treatment at the Blue Plains facility in the District of Columbia.

^e Totals include best available information from States and Territories that did not have the resources to complete the updating of the data or did not participate in the CWNS 2004 in order to maintain continuity with previous Reports to Congress. Forty-three projected treatment plants were excluded from this table because the data related to population, flow and effluent levels were not complete.

Table C-9 presents the treatment facilities represented in the CWNS 2004 as having less than secondary effluent discharges and no 301(h) waivers from secondary treatment for discharges to marine waters. The present and future effluent levels, design flow and population receiving treatment are shown for each facility, in addition to the Category I needs for the facility. Technical data are of January 1, 2004.

Table C-9. Technical Data and Costs for Facilities With Less-Than-Secondary Effluent Levels That Do Not Have 301(h) Waivers

State	Facility Name	Present Effluent	Future Effluent	Present Design Flow (mgd)	Future Design Flow (mgd)	Present Population Receiving Treatment	Future Population Receiving Treatment	Documented Category I Needs (January 2004 \$ millions)
MN	Barry Imhoff Tank	Primary (45mg/l< BOD)	Primary (45mg/l< BOD)	0.01	0.01	25	25	-
NM	Springer Treatment Plant	Primary (45mg/l< BOD)	Secondary	0.26	0.26	1,626	2,036	0.1
SC	BJWSA/Shell Point	Primary (45mg/l< BOD)	Secondary	0.4	0.4	4,000	4,000	0.1
TX	Rio Del Sol WWTP	Primary (45mg/l< BOD)		0.08	0	540	-	-
TX	Taft ISD - San Antonio Water System	Primary (45mg/l< BOD)		0.9	0	530	-	-
WV	Brushfork Area Collection System	Primary (45mg/l< BOD)		0.196	0	55	-	-
WV	Chattaroy PSD STP	Primary (45mg/l< BOD)		0.17	0	806	-	-
VI	St. Thomas WWTF	Primary (45mg/l< BOD)	Secondary	3.4	3.5	22,831	26,212	37.0